

Z is a single bond or a C<sub>1</sub>-C<sub>4</sub> hydrocarbon chain containing no more than 1 double or triple bond, optionally substituted with one or more substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl;

5        A is an aromatic ring selected from the group consisting of optionally substituted arylene and optionally substituted heteroarylene, wherein A is not benzimidazole and when Z is a single bond then A is not selected from the group consisting of phenylene and six-membered heteroarylene containing 3 or less than 3 nitrogens;

10       B is an aromatic ring selected from the group consisting of optionally substituted aryl, and heteroaryl and wherein A and B can not both be phenylene and wherein when Z is a single bond then B is not a bicyclic aryl or bicyclic heteroaryl;

wherein A and B are connected via a carbon-carbon bond;

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R<sub>2</sub> is selected from the group consisting of halogen, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, heteroalkyl, cycloalkyl, cycloalkenyl, heterocycloalkyl, heterocycloalkenyl, aryl, heteroaryl, cycloalkylalkyl, heterocycloalkylalkyl, arylalkyl, heteroarylalkyl, arylalkenyl, cycloalkylheteroalkyl, heterocycloalkylheteroalkyl, heteroarylheteroalkyl, arylheteroalkyl, hydroxy, hydroxyalkyl, alkoxy, alkoxyalkyl, alkoxyaryl, alkenyloxy, alkynyloxy, cycloalkylkoxy, heterocycloalkyloxy, aryloxy, heteroaryloxy, arylalkyloxy, amino, alkylamino, aminoalkyl, acylamino, arylamino, phenoxy, benzyloxy, COOH, COOR<sub>4</sub>, SH, CONHR<sub>4</sub>, NHR<sub>4</sub>, -(CH<sub>2</sub>)<sub>n</sub>NHCOR<sub>4</sub>, NHCOR<sub>4</sub>, NHCOOR<sub>4</sub>, NHCONHR<sub>4</sub>, C(=NOH)R<sub>4</sub>, NHSOR<sub>4</sub>, NHSO<sub>2</sub>R<sub>4</sub>, -(CH<sub>2</sub>)<sub>n</sub>-NR<sub>6</sub>R<sub>7</sub>, alkoxycarbonyl, alkylaminocarbonyl, sulfonyl, alkylsulfonyl, alkylsulfinyl, arylsulfonyl, arylsulfinyl, aminosulfonyl, aminosulfinyl, SR<sub>4</sub> and acyl each of which may optionally be substituted, provided that R<sub>2</sub> does not contain the moiety NHCONHCO or NHCONHSO<sub>2</sub>;

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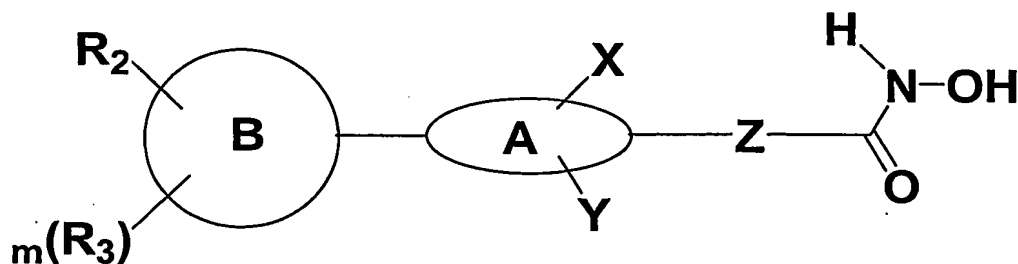
R<sub>3</sub> is selected from the group consisting of H, halogen, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, heteroalkyl, cycloalkyl, cycloalkenyl, heterocycloalkyl, heterocycloalkenyl, aryl, heteroaryl, cycloalkylalkyl, heterocycloalkylalkyl, arylalkyl, heteroarylalkyl, arylalkenyl, cycloalkylheteroalkyl, heterocycloalkylheteroalkyl, heteroarylheteroalkyl, arylheteroalkyl, hydroxy, hydroxyalkyl, alkoxy, alkoxyalkyl, alkoxyaryl, alkenyloxy, alkynyloxy, cycloalkylkoxy, heterocycloalkyloxy, aryloxy, heteroaryloxy, arylalkyloxy, amino, alkylamino, aminoalkyl, acylamino, arylamino, phenoxy, benzyloxy, COOH, COOR<sub>4</sub>, SH, CONHR<sub>4</sub>, NHR<sub>4</sub>, -(CH<sub>2</sub>)<sub>n</sub>NHCOR<sub>4</sub>, NHCOR<sub>4</sub>,

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or a pharmaceutically acceptable salt or prodrug thereof, wherein when A is 2,5-oxazolene and Z is a single bond,  $R_2 = R_3 = H$ , then B is not a phenyl, 4-Cl-phenyl, 4-CH<sub>3</sub>-O-phenyl or 4-NO<sub>2</sub>-phenyl.

- 5 A useful group of compounds within the scope of Formula (I) are those compounds of Formula (Ia)



Formula (Ia)

wherein

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Z is a single bond or a C<sub>1</sub>-C<sub>4</sub> hydrocarbon chain which may contain 0 to 1 double or triple bonds, unsubstituted or substituted with one or more substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl;

15

A is an aromatic ring selected from the group consisting of optionally substituted arylene and optionally substituted heteroarylene, wherein A is not benzimidazole and when Z is a single bond then A is not selected from the group consisting of phenylene and six-membered heteroarylene containing 3 or less than 3 nitrogens;

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B is an aromatic ring selected from the group consisting of aryl and heteroaryl and heteroarylene and wherein A and B can not both be phenylene and wherein when Z is a single bond then B is not a bicyclic aryl or bicyclic heteroaryl;

wherein A and B are connected via a carbon-carbon bond;

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$R_2$  is selected from C<sub>1</sub>-C<sub>10</sub> alkyl, alkenyl, heteroalkyl, haloalkyl, alkynyl, aryl, cycloalkyl, heterocycloalkyl, heteroaryl, C<sub>4</sub>-C<sub>9</sub> heterocycloalkylalkyl, cycloalkylalkyl (e.g., cyclopropylmethyl), arylalkyl (e.g. benzyl), heteroarylalkyl (e.g. pyridylmethyl), hydroxyl, hydroxyalkyl, alkoxy, amino, alkylamino, aminoalkyl, acylamino, phenoxy, alkoxyalkyl, benzyloxy, alkylsulfonyl, arylsulfonyl, aminosulfonyl, -C(O)OR<sub>4</sub>, -C(O)OH, -SH, -CONHR<sub>4</sub>,

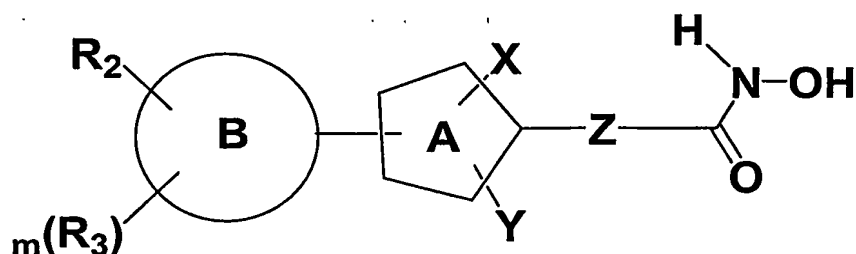
$R_8$  and  $R_9$  are the same or different and independently selected from the group consisting of H,  $C_1$ - $C_6$  alkyl,  $C_4$ - $C_8$  cycloalkyl,  $C_4$ - $C_8$  heterocycloalkyl, aryl, heteroaryl, arylalkyl, and heteroarylalkyl;

5 m is an integer from 0 to 4;

or a pharmaceutically acceptable salt or prodrug thereof, wherein when A is 2,5-oxazolene and Z is a single bond,  $R_2 = R_3 = H$ , then B is not a phenyl, 4-Cl-phenyl, 4- $CH_3$ -O-phenyl or 4- $NO_2$ -phenyl.

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In further embodiments there are disclosed hydroxamate compounds of Formula (Ib):



**Formula (Ib)**

wherein

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Z is a single bond or a  $C_1$ - $C_4$  hydrocarbon chain which may contain 0 to 1 double bond or triple bond, unsubstituted or substituted with one or more substituents independently selected from the group consisting of  $C_1$ - $C_4$  alkyl;

A is an optionally substituted five-membered heteroarylene;

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B is an aromatic ring which is selected from the group consisting of aryl, and heteroaryl; wherein when Z is a single bond then B is not a bicyclic aryl or bicyclic heteroaryl;

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wherein A and B are connected via a carbon-carbon bond;

$R_2$  is selected from the group consisting of halogen, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, heteroalkyl, cycloalkyl, cycloalkenyl, heterocycloalkyl, heterocycloalkenyl, aryl, heteroaryl, cycloalkylalkyl, heterocycloalkylalkyl, arylalkyl, heteroarylalkyl, arylalkenyl, cycloalkylheteroalkyl, heterocycloalkylheteroalkyl, heteroarylheteroalkyl, arylheteroalkyl, hydroxy, hydroxyalkyl, alkoxy, alkoxyalkyl,

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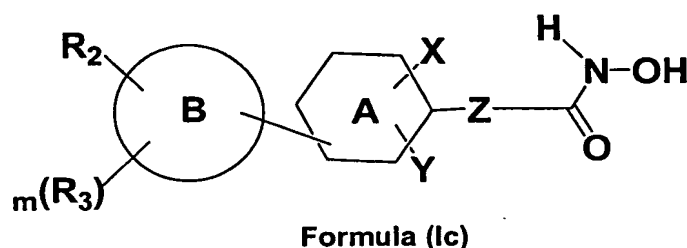
n is an integer from 0 to 6;

m is an integer from 0 to 4;

5 or a pharmaceutically acceptable salt or prodrug thereof wherein when A is 2,5-oxazolene and Z is a single bond,  $R_2 = R_3 = H$ , then B is not a phenyl, 4-Cl-phenyl, 4-CH<sub>3</sub>-O-phenyl or 4-NO<sub>2</sub>-phenyl.

10 In a particularly preferred embodiment of the compounds of Formula (Ib) the B moiety is attached to the 3rd or 4<sup>th</sup> position relative to Z of ring A.

In yet a further embodiment of the compounds of Formula (I) there are disclosed compounds of the Formula (Ic) :



15 wherein

Z is a single bond or a C<sub>1</sub>-C<sub>4</sub> hydrocarbon chain which may contain 0 to 1 double bond or triple bond, unsubstituted or substituted with one or more substituents  
20 independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl;

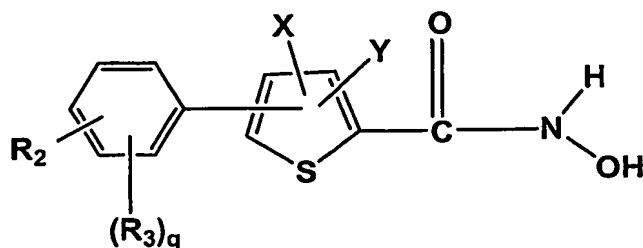
A is a six-membered aromatic ring which is selected from the group consisting of optionally substituted arylene or optionally substituted heteroarylene and when Z is a single bond then A is not selected from the group consisting of phenylene and six-  
25 membered heteroarylene containing 3 or less than 3 nitrogens;

B is an aromatic ring and is attached to the 3rd or 4<sup>th</sup> position relative to Z of ring A selected from the group consisting of aryl, and heteroaryl and wherein A and B can not both be phenylene;

30 wherein A and B are connected via a carbon-carbon bond;

p is preferably 0 or 1, most preferably 0.

In another preferred embodiment the invention provides compounds of Formula (Ig):



Formula (Ig)

wherein q is an integer from 0 to 4, and X, Y,  $R_2$  and  $R_3$  are as described for Formula (I).

$R_2$  is preferably selected from the group consisting of:

- $NH_2$ ,

- $(CH_2)_nNHCOR_4$ ,

- $NHSO_2R_4$ ,

- $NR_4$ ,

- $(CH_2)_nNR_6R_7$ .

- arylalkyl,

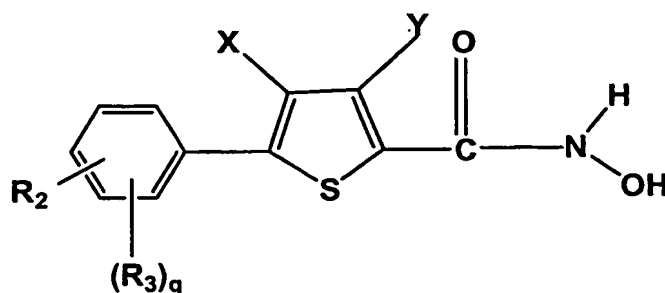
- heteroarylalkyl,

each of which may be optionally substituted

wherein n is an integer from 0 to 6 and  $R_4$ ,  $R_6$  and  $R_7$  are as described for Formula (I), or a pharmaceutically acceptable salt or prodrug thereof.

q is preferably 0 or 1, most preferably 0.

In another preferred embodiment the invention provides compounds of Formula (Ih):



Formula (Ih)

wherein  $q$  is an integer from 0 to 4, and  $X$ ,  $Y$ ,  $R_2$  and  $R_3$  are as described for Formula (I).

$R_2$  is preferably selected from the group consisting of:

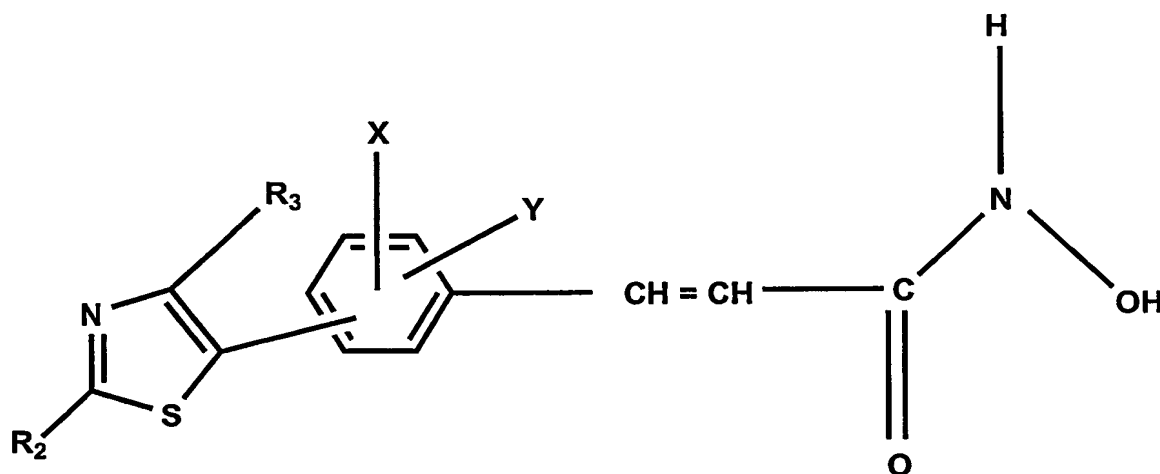
- NH<sub>2</sub>,
- 5 -(CH<sub>2</sub>) <sub>$n$</sub> NHCOR<sub>4</sub>,
- NHSO<sub>2</sub>R<sub>4</sub>,
- NR<sub>4</sub>,
- (CH<sub>2</sub>) <sub>$n$</sub> NR<sub>6</sub>R<sub>7</sub>.
- arylalkyl,
- 10 -heteroarylalkyl,

each of which may be optionally substituted

wherein  $n$  is an integer from 0 to 6 and  $R_4$ ,  $R_6$  and  $R_7$  are as described for Formula (I), or a pharmaceutically acceptable salt or prodrug thereof.

- 15  $q$  is preferably 0 or 1, most preferably 0.

In another preferred embodiment the invention provides a compound of Formula (II):



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Formula (II)

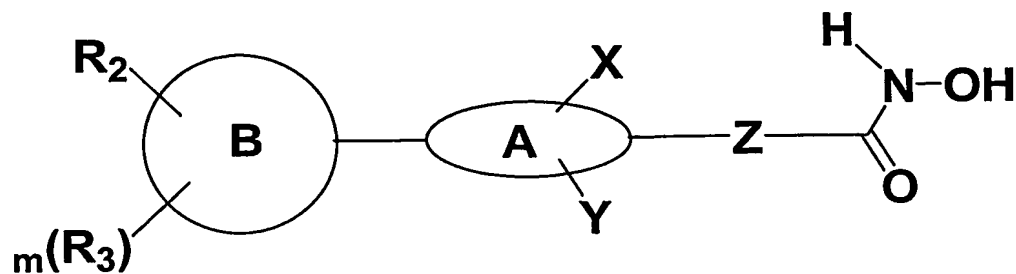
wherein  $X$ ,  $Y$ ,  $R_2$  and  $R_3$  are as described for Formula (I)

$R_2$  is preferably selected from the group consisting of:

- NH<sub>2</sub>,
- 25 -(CH<sub>2</sub>) <sub>$n$</sub> NHCOR<sub>4</sub>,
- NHSO<sub>2</sub>R<sub>4</sub>,
- NR<sub>4</sub>,
- (CH<sub>2</sub>) <sub>$n$</sub> NR<sub>6</sub>R<sub>7</sub>.

What is claimed is:

1. A compound of the Formula (I)



**Formula (I)**

wherein

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Z is a single bond or a C<sub>1</sub>-C<sub>4</sub> hydrocarbon chain containing no more than 1 double or triple bond, optionally substituted with one or more substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl;

10

A is an aromatic ring selected from the group consisting of optionally substituted arylene and optionally substituted heteroarylene, wherein A is not benzimidazole and when Z is a single bond then A is not selected from the group consisting of phenylene and six-membered heteroarylene containing 3 or less than 3 nitrogens;

15

B is an aromatic ring selected from the group consisting of aryl, and heteroaryl and wherein A and B can not both be phenylene and wherein when Z is a single bond then B is not a bicyclic aryl or bicyclic heteroaryl;

wherein A and B are connected via a carbon-carbon bond;

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R<sub>2</sub> is selected from the group consisting of halogen, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, heteroalkyl, cycloalkyl, cycloalkenyl, heterocycloalkyl, heterocycloalkenyl, aryl, heteroaryl, cycloalkylalkyl, heterocycloalkylalkyl, arylalkyl, heteroarylalkyl, arylalkenyl, cycloalkylheteroalkyl, heterocycloalkylheteroalkyl, heteroarylheteroalkyl, arylheteroalkyl, hydroxy, hydroxyalkyl, alkoxy, alkoxyalkyl, alkoxyaryl, alkenyloxy, alkynyloxy, cycloalkyloxy, heterocycloalkyloxy, aryloxy, heteroaryloxy, arylalkyloxy, amino, alkylamino, aminoalkyl, acylamino, arylamino, phenoxy, benzyloxy, COOH, COOR<sub>4</sub>, SH, CONHR<sub>4</sub>, NHR<sub>4</sub>, -(CH<sub>2</sub>)<sub>n</sub>NHCOR<sub>4</sub>, NHCOR<sub>4</sub>, NHCOOR<sub>4</sub>, NHCONHR<sub>4</sub>, C(=NOH)R<sub>4</sub>, NHSOR<sub>4</sub>, NHSO<sub>2</sub>R<sub>4</sub>, -(CH<sub>2</sub>)<sub>n</sub>-NR<sub>6</sub>R<sub>7</sub>, alkoxycarbonyl,

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cycloalkylalkyl, heterocycloalkylalkyl, arylalkyl, heteroarylalkyl and acyl; each of which may be optionally substituted;

each  $R_8$  and  $R_9$  is independently selected from the group consisting of H, alkyl, alkenyl, alkynyl, haloalkyl, heteroalkyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl, cycloalkylalkyl, heterocycloalkylalkyl, arylalkyl, heteroarylalkyl and acyl; each of which may be optionally substituted;

$n$  is an integer from 0 to 6,

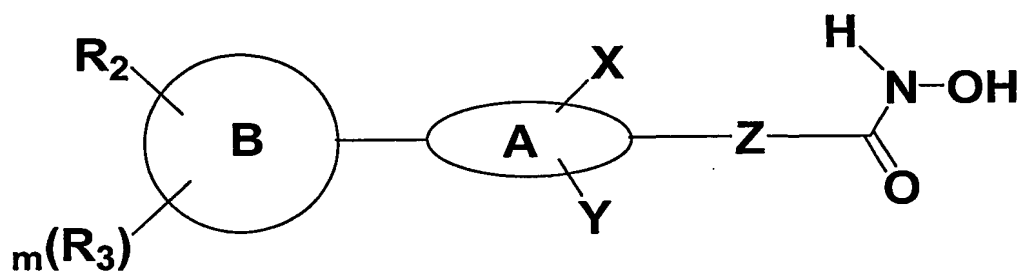
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$m$  is an integer from 0 to 4;

or a pharmaceutically acceptable salt or prodrug thereof,

15 wherein when A is 2,5-oxazolene and Z is a single bond,  $R_2 = R_3 = H$ , then B is not a phenyl, 4-Cl-phenyl, 4-CH<sub>3</sub>-O-phenyl or 4-NO<sub>2</sub>-phenyl.

2. A compound according to claim 1 having the Formula (Ia)



**Formula (Ia)**

20

wherein

Z is a single bond or a C<sub>1</sub>-C<sub>4</sub> hydrocarbon chain which may contain 0 to 1 double or triple bonds, unsubstituted or substituted with one or more substituents independently selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> alkyl;

25

A is an aromatic ring selected from the group consisting of optionally substituted arylene and optionally substituted heteroarylene, wherein A is not benzimidazole and when Z is a single bond then A is not selected from the group consisting of phenylene and six-membered heteroarylene containing 3 or less than 3 nitrogens;

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B is an aromatic ring selected from the group consisting of aryl, and heteroaryl

and wherein A and B can not both be phenylene and wherein when Z is a single bond then B is not a bicyclic aryl or bicyclic heteroaryl;

wherein A and B are connected via a carbon-carbon bond;

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$R_2$  is selected from  $C_1$ - $C_{10}$  alkyl, alkenyl, heteroalkyl, haloalkyl, alkynyl, aryl, cycloalkyl, heterocycloalkyl, heteroaryl,  $C_4$ - $C_9$  heterocycloalkylalkyl, cycloalkylalkyl (e.g., cyclopropylmethyl), arylalkyl (e.g. benzyl), heteroarylalkyl (e.g. pyridylmethyl), hydroxyl, hydroxyalkyl, alkoxy, amino, alkylamino, aminoalkyl, acylamino, phenoxy, alkoxyalkyl, benzyloxy, alkylsulfonyl, arylsulfonyl, aminosulfonyl,  $-C(O)OR_4$ ,  $-C(O)OH$ ,  $-SH$ ,  $-CONHR_4$ ,  $-NHCONHR_4$ ,  $C(=NOH)R_4$ ,  $-C(O)C(O)OR_4$ ,  $C(O)CONHR_4$ ,  $CON(R_5)OR_4$ ,  $COCON(R_4)OR_4$ ,  $NHCOR_4$ , and acyl; each of the above is unsubstituted or optionally substituted with one or more substituents independently selected from the group consisting of: halogen;  $=O$ ;  $=S$ ;  $-CN$ ; and  $-NO_2$ ; and alkyl, alkenyl, heteroalkyl, haloalkyl, alkynyl, aryl, cycloalkyl, heterocycloalkyl, heteroaryl, hydroxyl, hydroxyalkyl, alkoxy, alkylamino, aminoalkyl, acylamino, phenoxy, alkoxyalkyl, benzyloxy, alkylsulfonyl, arylsulfonyl, aminosulfonyl,  $-C(O)OR_5$ ,  $-C(O)OH$ ,  $-SH$ ,  $-C(O)C(O)OR_5$ ,  $C(O)CONHR_5$ ,  $CON(R_5)OR_5$ ,  $COCON(R_5)OR_5$ ,  $NHCOR_5$ , and acyl; wherein  $R_2$  does not contain the moiety  $NHCONHCO$  or  $NHCONHSO_2$ ;

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$R_3$  is selected from H,  $C_1$ - $C_{10}$  alkyl, alkenyl, heteroalkyl, haloalkyl, alkynyl, aryl, cycloalkyl, heterocycloalkyl, heteroaryl,  $C_4$ - $C_9$  heterocycloalkylalkyl, cycloalkylalkyl (e.g., cyclopropylmethyl), arylalkyl (e.g. benzyl), heteroarylalkyl (e.g. pyridylmethyl), hydroxyl, hydroxyalkyl, alkoxy, amino, alkylamino, aminoalkyl, acylamino, phenoxy, alkoxyalkyl, benzyloxy, alkylsulfonyl, arylsulfonyl, aminosulfonyl,  $-C(O)OR_4$ ,  $-C(O)OH$ ,  $-SH$ ,  $-CONHR_4$ ,  $-NHCONHR_4$ ,  $C(=NOH)R_4$ ,  $-C(O)C(O)OR_4$ ,  $C(O)CONHR_4$ ,  $CON(R_5)OR_4$ ,  $COCON(R_4)OR_4$ ,  $NHCOR_4$ , and acyl; each of the above is unsubstituted or optionally substituted with one or more substituents independently selected from the group consisting of: halogen;  $=O$ ;  $=S$ ;  $-CN$ ; and  $-NO_2$ ; and alkyl, alkenyl, heteroalkyl, haloalkyl, alkynyl, aryl, cycloalkyl, heterocycloalkyl, heteroaryl, hydroxyl, hydroxyalkyl, alkoxy, alkylamino, aminoalkyl, acylamino, phenoxy, alkoxyalkyl, benzyloxy, alkylsulfonyl, arylsulfonyl, aminosulfonyl,  $-C(O)OR_5$ ,  $-C(O)OH$ ,  $-SH$ ,  $-C(O)C(O)OR_5$ ,  $C(O)CONHR_5$ ,  $CON(R_5)OR_5$ ,  $COCON(R_5)OR_5$ ,  $NHCOR_5$ , and acyl; wherein  $R_3$  does not contain the moiety  $NHCONHCO$  or  $NHCONHSO_2$ ;

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or  $R_2$  and  $R_3$  together with portion of ring B may form a non-aromatic ring fused to B;